Abstract of the Disclosure

An inverter control device for driving a motor with small size, light weight and low cost is provided. The inverter control device generates PN voltage correction coefficient by dividing the reference DC voltage by the detected DC voltage, and corrects the voltage command of each phase by multiplying the voltage command of each phase obtained by the motor voltage command generator with the PN voltage correction coefficient output from the PN voltage corrector, thus resulting in the corrected motor voltage command. The inverter control device has, in generating PN voltage correction coefficient, a first mode in which the PN voltage correction coefficient is set to 1 when the DC voltage value is more than the reference DC voltage, and a second mode in which the value obtained by dividing the reference DC voltage by the detected DC voltage is set to the PN voltage correction coefficient.